

August 15, 2006



U.S. Department
of Transportation

400 Seventh Street, S.W.
Washington, D.C. 20590

**Pipeline and Hazardous
Materials Safety Administration**

DOT-SP 11536
(SEVENTH REVISION)

EXPIRATION DATE: February 28, 2007

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: The Boeing Company
Los Angeles, California
2. PURPOSE AND LIMITATION:
 - a. This special permit authorizes the transportation in commerce of gases in non-DOT specification packagings (spacecraft) and limited quantities of Division 1.4S explosives secured within the spacecraft. This special permit provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein.
 - b. The safety analyses performed in development of this special permit only considered the hazards and risks associated with transportation in commerce. The safety analyses did not consider the hazards and risks associated with consumer use, use as a component of a transport vehicle or other device, or other uses not associated with transportation in commerce.
 - c. No party status will be granted to this special permit.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 172.102(c) Special Provision 101 for naming the specific substance; venting requirements under § 173.24(g); packaging requirements under § 173.62 and § 173.202; and § 173.304a and § 175.3 in that a non-DOT specification cylinder is authorized as specified herein.

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5. BASIS: This special permit is based on the application of Boeing Company dated May 16, 2006 submitted in accordance with § 107.105 and public proceeding thereon.
6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Proper Shipping Name/ Hazardous Materials Description	Hazard Class/ Division	Identi- fication Number	Packing Group
Ammonia, anhydrous	2.3	UN1005	Hazard Zone D
Argon, compressed	2.2	UN1006	N/A
Articles, explosive, n.o.s.	1.4S	UN0349	II
Helium, compressed	2.2	UN1046	N/A
Hydrogen, compressed	2.1	UN1049	N/A
Krypton, compressed	2.2	UN1056	N/A
Nitrogen, Compressed	2.2	UN1066	N/A
Propylene	2.1	UN1077	N/A
Refrigerant gas, R 404A	2.2	UN3337	N/A
Xenon, compressed	2.2	UN2036	N/A

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Packagings are components of a spacecraft. Xenon gas must be packaged in carbon-filament wrapped aluminum or titanium cylinders complying with the applicable sections of MIL-STD-1522A (USAF) for pressurized systems, dated May 28, 1984. Anhydrous ammonia must be packaged in heat pipe/radiators. Pressure relief devices are not required. All spacecraft batteries must be non-spillable in compliance with the requirements of § 173.159(d). The explosives must be secured in the spacecraft. The spacecraft must be packaged in the "Belfast container" (7705995), the "Goodyear container" (3015001-7), the "Boeing shipping container / transporter" (8074389), the HS-A11 containers (7789707, 3857090 or 7990150), the HS-376 shipping container (3566812), the HS 601 shipping container (7730520) with continuous nitrogen or air flow as shown in the original application and the application for modification. Note: the

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nitrogen or air flow expelled from the shipping container during transit is not to be considered leakage of hazardous material.

b. The requirements for venting under § 173.24(g) are waived. When nitrogen flow is used, precautions must be taken to prevent the creation of asphyxiating conditions in a closed space and only unpressurized cargo compartments may be used when shipping by air.

c. Propylene may be used in the cooling system in lieu of anhydrous ammonia.

d. Quantities of materials shall not exceed that specified in the application.

8. SPECIAL PROVISIONS:

a. Packages permanently marked 'DOT-E 11536', prior to October 1, 2007 may continue to be used under this special permit for the remaining service life of the packaging or until the special permit is no longer valid. Packages marked on or after October 1, 2007 must be marked 'DOT-SP 11536'.

b. Shipping papers displaying 'DOT-E 11536' may continue to be used until October 1, 2007, provided the special permit remains valid.

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, cargo vessel, cargo aircraft only.

10. MODAL REQUIREMENTS: A current copy of this special permit must be carried aboard each cargo vessel, aircraft or motor vehicle used to transport packages covered by this special permit. The shipper must furnish a copy of this special permit to the air carrier before or at the time the shipment is tendered.

11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this special permit and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:

- o All terms and conditions prescribed in this special permit and the Hazardous Materials Regulations, 49 CFR Parts 171-180.

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- o Persons operating under the terms of this special permit must comply with the security plan requirement in Subpart I of Part 172 of the HMR, when applicable.
- o Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this special permit must receive training on the requirements and conditions of this special permit in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this special permit, including display of its number, when this special permit has expired or is otherwise no longer in effect.

Under Title VII of the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU)- 'The Hazardous Materials Safety and Security Reauthorization Act of 2005' (Pub. L. 109-59), 119 Stat. 1144 (August 10, 2005), amended the Federal hazardous materials transportation law by changing the term 'exemption' to 'special permit' and authorizes a special permit to be granted up to two years for new special permits and up to four years for renewals.

12. REPORTING REQUIREMENTS: Shipments or operations conducted under this special permit are subject to the Hazardous Materials Incident Reporting requirements specified in 49 CFR §§ 171.15 - Immediate notice of certain hazardous materials incidents, and 171.16 - Detailed hazardous materials incident reports. In addition, the grantee(s) of this special permit must notify the Associate Administrator for Hazardous Materials Safety, in writing, of any incident involving a package, shipment or operation conducted under terms of this special permit.

Issued in Washington, D.C.



for Robert A. McGuire
Associate Administrator
for Hazardous Materials Safety

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Pipeline and Hazardous Materials Safety

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Administration, Department of Transportation, Washington, D.C.
20590. Attention: PHH-31.

Copies of this special permit may be obtained by accessing the
Hazardous Materials Safety Homepage at

http://hazmat.dot.gov/sp_app/special_permits/spec_perm_index.htm

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PO: KFW/kah